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**From:** Towle, Michael [Towle.Michael@epa.gov]  
**Sent:** 2/7/2018 6:29:18 PM  
**To:** Hirsh, Steven [Hirsh.Steven@epa.gov]; rogers, rick [rogers.rick@epa.gov]; Yap-deffler, Yazmine [Yap-Deffler.Yazmine@epa.gov]  
**CC:** O'Loughlin, Connor [oloughlin.connor@epa.gov]; Bennett, James [bennett.james@epa.gov]; Crumlish, Karen [Crumlish.Karen@epa.gov]; Davies, Kathy [Davies.Kathy@epa.gov]; Leipert, Mark [leipert.mark@epa.gov]; Rovira, Eduardo [Rovira.Eduardo@epa.gov]  
**Subject:** RE: Town of Blades - Municipal Well Interim Sampling Results (PFOA/PFOS)

All – OSC Eduardo Rovira is now assigned. Please loop him in as appropriate. Thank you.

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**From:** Hirsh, Steven  
**Sent:** Wednesday, February 07, 2018 11:48 AM  
**To:** rogers, rick <rogers.rick@epa.gov>  
**Cc:** O'Loughlin, Connor <oloughlin.connor@epa.gov>; Yap-deffler, Yazmine <Yap-Deffler.Yazmine@epa.gov>; Bennett, James <bennett.james@epa.gov>; Crumlish, Karen <Crumlish.Karen@epa.gov>; Davies, Kathy <Davies.Kathy@epa.gov>; Leipert, Mark <leipert.mark@epa.gov>; Towle, Michael <Towle.Michael@epa.gov>  
**Subject:** Re: Town of Blades - Municipal Well Interim Sampling Results (PFOA/PFOS)

Pipeline over or under a river is complex and expensive. I'd think the answer is temporary carbon treatment.

Has the water authority been notified?

Thanks,  
Steve

Steven Hirsh, Associate Director  
Federal Facilities Remediation and Site Assessment  
Hazardous Site Cleanup Division  
US EPA Region III

Desk: (215) 814-3352 Cell: (215) 514-9015  
[hirsh.steven@epa.gov](mailto:hirsh.steven@epa.gov)

On Feb 7, 2018, at 11:14 AM, rogers, rick <[rogers.rick@epa.gov](mailto:rogers.rick@epa.gov)> wrote:

Thanks, Connor.

DE Department of Health confirmed this morning that the Town of Blades water system does not have any interconnections to a neighboring public water supply. Depending on what DOH wants to do with this situation as far as eliminating exposure through drinking water, their options are pretty limited to getting emergency treatment in place. The Town of Seaford has five wells that serve about 6,700. I'm not sure if they could produce enough water to supply Blades, temporarily. I kind of doubt it. That would take running a decent size pipe over the river between the two towns.

Rick

Rick Rogers, Associate Director  
Office of Drinking Water and Source Water Protection  
Water Protection Division (3WP20)  
U.S. EPA Region III

1650 Arch Street  
Philadelphia, PA 19103  
[rogers.rick@epa.gov](mailto:rogers.rick@epa.gov)  
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**From:** O'Loughlin, Connor

**Sent:** Wednesday, February 07, 2018 11:06 AM

**To:** rogers, rick <[rogers.rick@epa.gov](mailto:rogers.rick@epa.gov)>; Yap-deffler, Yazmine <[Yap-Deffler.Yazmine@epa.gov](mailto:Yap-Deffler.Yazmine@epa.gov)>; Hirsh, Steven <[Hirsh.Steven@epa.gov](mailto:Hirsh.Steven@epa.gov)>; Bennett, James <[bennett.james@epa.gov](mailto:bennett.james@epa.gov)>

**Cc:** Crumlish, Karen <[Crumlish.Karen@epa.gov](mailto:Crumlish.Karen@epa.gov)>; Davies, Kathy <[Davies.Kathy@epa.gov](mailto:Davies.Kathy@epa.gov)>; Leipert, Mark <[leipert.mark@epa.gov](mailto:leipert.mark@epa.gov)>; Towle, Michael <[Towle.Michael@epa.gov](mailto:Towle.Michael@epa.gov)>

**Subject:** RE: Town of Blades - Municipal Well Interim Sampling Results (PFOA/PFOS)

Rick,

To answer your question regarding the interconnections of the water system. I have attached a map from the Remedial Investigation conducted at the Procino facility. The area in blue represents a section of the town that uses private domestic wells. There are 12 wells that were tested in this blue area that were previously sampled for other plating constituents. The area in light green is attached to the municipal system. Please note this map was created before the town installed the third municipal well.

Thank you.

Connor O'Loughlin P.G.  
Environmental Protection Agency, Region III  
Site Assessment Manager  
HSCD  
1650 Arch Street,  
Philadelphia, PA 19103-2029  
phone 215-814-3304  
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**From:** rogers, rick

**Sent:** Tuesday, February 06, 2018 5:07 PM

**To:** Yap-deffler, Yazmine <[Yap-Deffler.Yazmine@epa.gov](mailto:Yap-Deffler.Yazmine@epa.gov)>; Hirsh, Steven <[Hirsh.Steven@epa.gov](mailto:Hirsh.Steven@epa.gov)>; O'Loughlin, Connor <[oloughlin.connor@epa.gov](mailto:oloughlin.connor@epa.gov)>; Bennett, James <[bennett.james@epa.gov](mailto:bennett.james@epa.gov)>

**Cc:** Crumlish, Karen <[Crumlish.Karen@epa.gov](mailto:Crumlish.Karen@epa.gov)>; Rizzo, George <[Rizzo.George@epa.gov](mailto:Rizzo.George@epa.gov)>

**Subject:** RE: Town of Blades - Municipal Well Interim Sampling Results (PFOA/PFOS)

Hi Yazmine,

Yes, Karrie is the right contact for the program side of the drinking water program. Jim Bennet has the enforcement side which has worked a number of PFAS contamination sites via an enforcement action. This won't result in an EPA SDWA enforcement action, I'm sure.

I did find out that DNREC contacted the Department of Health. DOH will let us know tomorrow if this water system has an interconnection with a neighboring water system. I think we have to be ready to deal with a situation where there is no alternate water source for this public water supply and no quick way to reduce or eliminate exposure.. Do you know if these RPs would be capable of covering installation of at least a temporary GAC filtration treatment on this supply?

Thanks,

Rick

Rick Rogers, Associate Director  
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Philadelphia, PA 19103  
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**From:** Yap-deffler, Yazmine

**Sent:** Tuesday, February 06, 2018 5:00 PM

**To:** rogers, rick <[rogers.rick@epa.gov](mailto:rogers.rick@epa.gov)>; Hirsh, Steven <[Hirsh.Steven@epa.gov](mailto:Hirsh.Steven@epa.gov)>; O'Loughlin, Connor <[oloughlin.connor@epa.gov](mailto:oloughlin.connor@epa.gov)>; Bennett, James <[bennett.james@epa.gov](mailto:bennett.james@epa.gov)>

**Subject:** RE: Town of Blades - Municipal Well Interim Sampling Results (PFOA/PFOS)

Hi Rick,

We'll follow up with you on that question about DE DHSS. FYI, we also forwarded the email to Karen Crumlish, DW Branch Chief. Please advise if she was the right POC for your group.

Thanks,  
Yaz

Yazmine J. Yap-Deffler, Chief  
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**From:** rogers, rick

**Sent:** Tuesday, February 06, 2018 4:36 PM

**To:** Hirsh, Steven <[Hirsh.Steven@epa.gov](mailto:Hirsh.Steven@epa.gov)>; O'Loughlin, Connor <[oloughlin.connor@epa.gov](mailto:oloughlin.connor@epa.gov)>; Bennett, James <[bennett.james@epa.gov](mailto:bennett.james@epa.gov)>

**Cc:** Yap-deffler, Yazmine <[Yap-Deffler.Yazmine@epa.gov](mailto:Yap-Deffler.Yazmine@epa.gov)>

**Subject:** RE: Town of Blades - Municipal Well Interim Sampling Results (PFOA/PFOS)

Connor,

Do you know if DNREC has informed the DE Department of Health and Social Services of these results?

Thanks,

Rick

Rick Rogers, Associate Director  
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**From:** Hirsh, Steven  
**Sent:** Tuesday, February 06, 2018 4:32 PM  
**To:** O'Loughlin, Connor <[oloughlin.connor@epa.gov](mailto:oloughlin.connor@epa.gov)>; rogers, rick <[rogers.rick@epa.gov](mailto:rogers.rick@epa.gov)>; Bennett, James <[bennett.james@epa.gov](mailto:bennett.james@epa.gov)>  
**Cc:** Yap-deffler, Yazmine <[Yap-Deffler.Yazmine@epa.gov](mailto:Yap-Deffler.Yazmine@epa.gov)>  
**Subject:** Re: Town of Blades - Municipal Well Interim Sampling Results (PFOA/PFOS)

Hi Connor,

I am passing this info along to Water Division. Is DNREC having the data validated?

Do we have a sample of the finished water?

There is a PFAS meeting tomorrow at 330 with HSCD and Water. Can you make the meeting to discuss this?

I am in DC thru Thursday but can talk to you tomorrow before the 330 meeting if you want to discuss and I'll be calling in for the PFAS when my training ends, hopefully that will be right around the beginning of the meeting.

Thanks,  
Steve

Steven Hirsh, Associate Director  
Federal Facilities Remediation and Site Assessment  
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On Feb 6, 2018, at 2:59 PM, O'Loughlin, Connor <[oloughlin.connor@epa.gov](mailto:oloughlin.connor@epa.gov)> wrote:

Steve and Yazmine,

Stephanie Gordon at DNREC has relayed the preliminary results of the municipal well sampling. I wanted to pass them along to our group. Under cooperative agreement, DNREC sampled the three municipal wells owned by the City of Blades. The three wells do not have treatment, but are manifolded together as a blended system. The system directly serves approximately 1,200 people. The concentrations in all three wells are above the HAL. These results in the wells are potentially from two known electroplating companies that are or have been in the VCP. During the course of the site inspection (SI) of the Procino Plating facility, 12 private residential wells were identified surrounding the two facilities. As a next step in the SI process I would like to pursue discussions to sample the residential wells.

Blades Well: SPW02 – PFOS is 102.0 ng/l, PFOA is 15.5 ng/l.

Blades Well: SPW02 – PFOS is 82.6 ng/l, PFOA is 13.6 ng/l.

Blades Well: SPW03 – PFOS is 178 ng/l, PFOA is 15.1 ug/l.

I was hoping to discuss the next steps for the investigation once the final results are available. I have a couple thoughts that I would like to discuss

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